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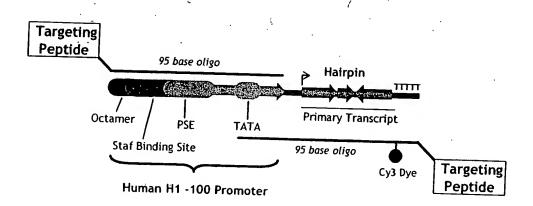
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Silencing hairpin RNA against EGFP (Clontech humanized)

FIGURE 2A

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Mature transcript, following processing by RNase III

sense

gcaagcugacccugaaguuc<u>uu</u> ||||||||||||||||| <u>uu</u>cguucgacugggacuucaag

antisense

FIGURE 2B

-

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aatatttgcatgtcgctatgtgttctgggaaa tcaccataaacgtgaaatgtctttggatttgg gaatcttataagttctgtatgagaccacagat ccccgcaagctgaccctgaagttcttcaagag agaacttcagggtcagcttgctttttgg

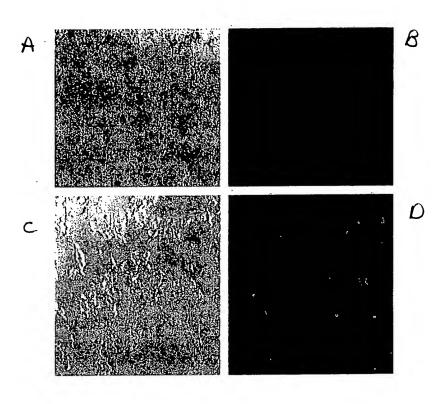


FIGURE 4

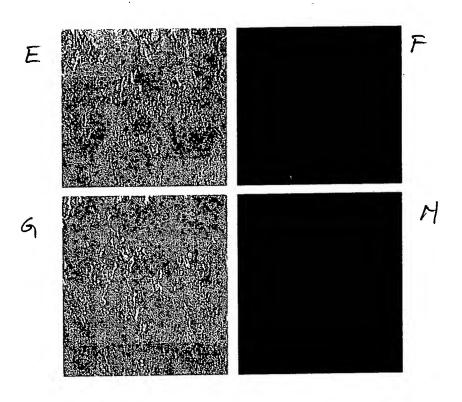


FIGURE 4 (CONT. O.)

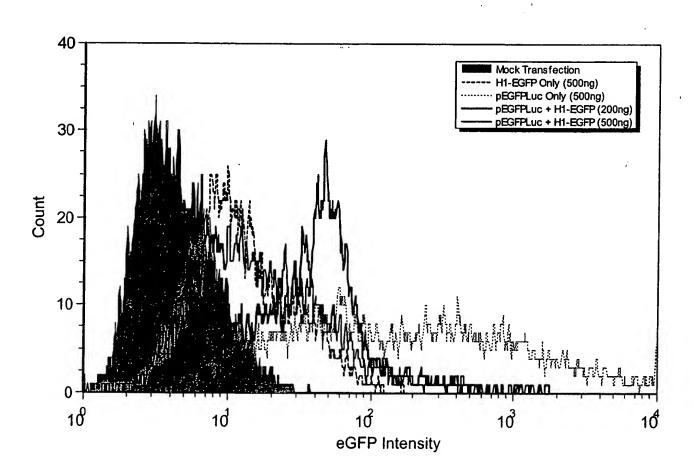
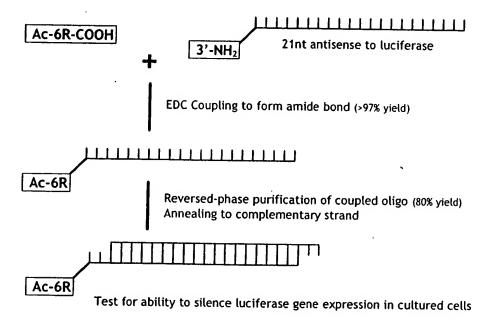


FIGURE 5



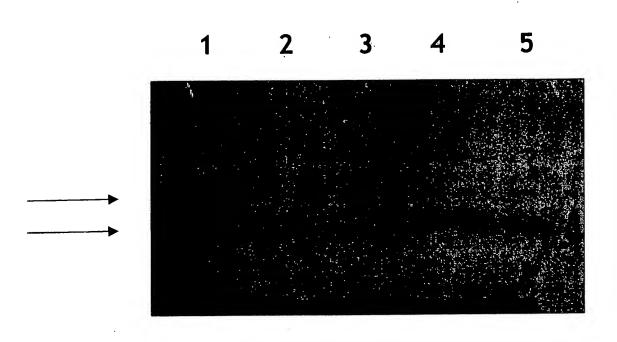


FIGURE 7

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Conserved Top Strand (CTS)	Nonconserved Top Strand (NCTS)
Oligo	Over Lapinegion
Conserved Bottom Strand (CBS)	Nonconserved Bottom Strand (NCBS) (-18)

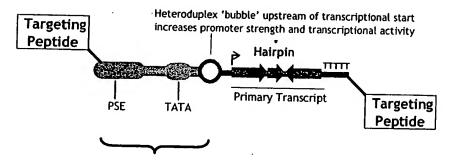
FIGURE 8A

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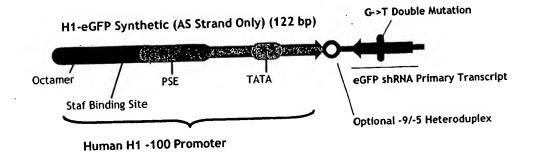
TOP STRAND

BOTTOM STRAND

FIGURE 8B



Truncated Human H1 -70 Promoter (Pol III)



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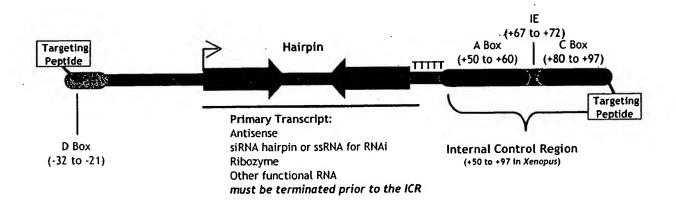


FIGURE 11

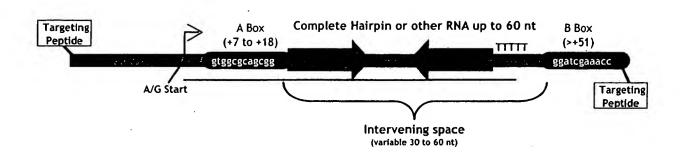


FIGURE 12A

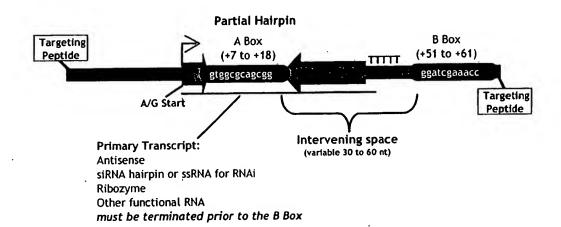
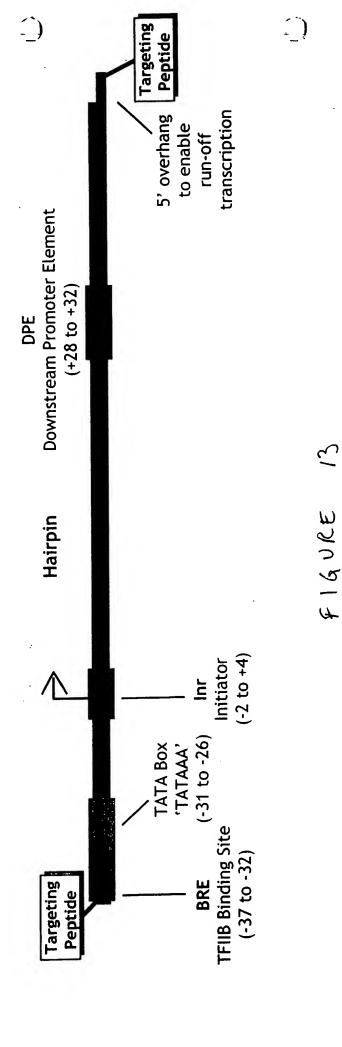


FIGURE 12B



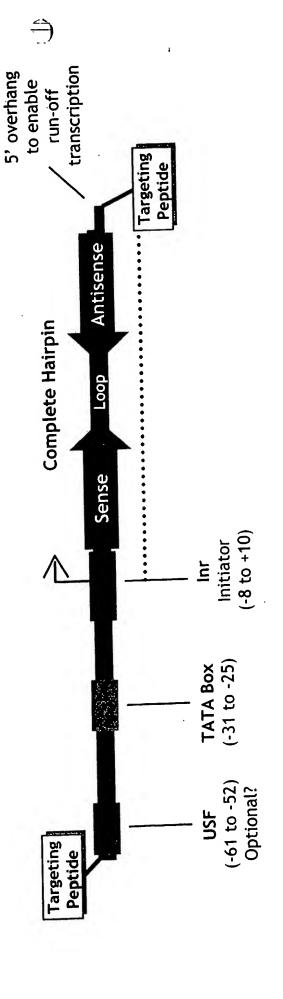
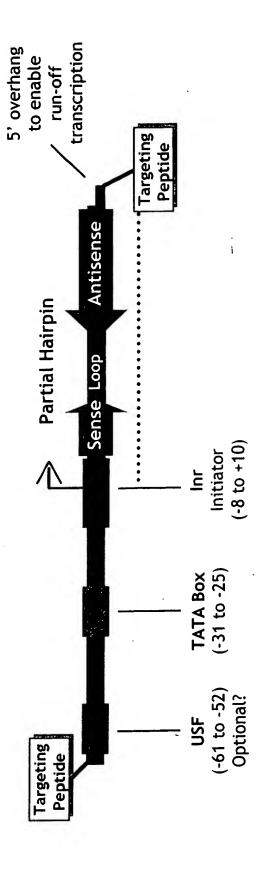


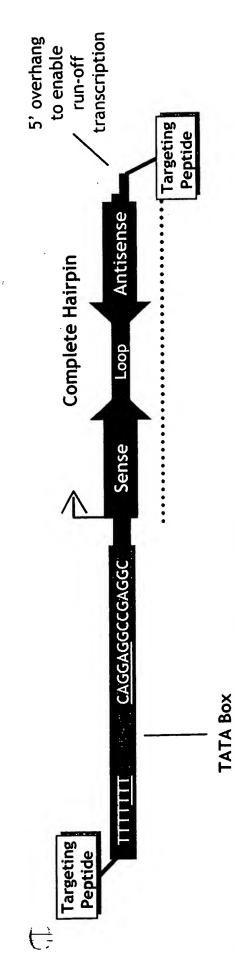
FIGURE 14A



(T

FIGURE 14B

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(Approx -5, -25 and/or -40 bp from start of transcription) Tst-1 Binding Site Underlined

 \ominus

FIGURE 15A

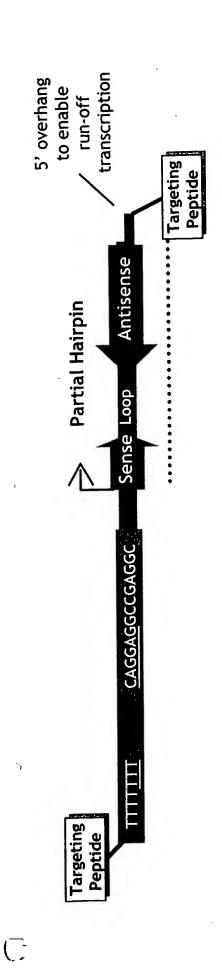
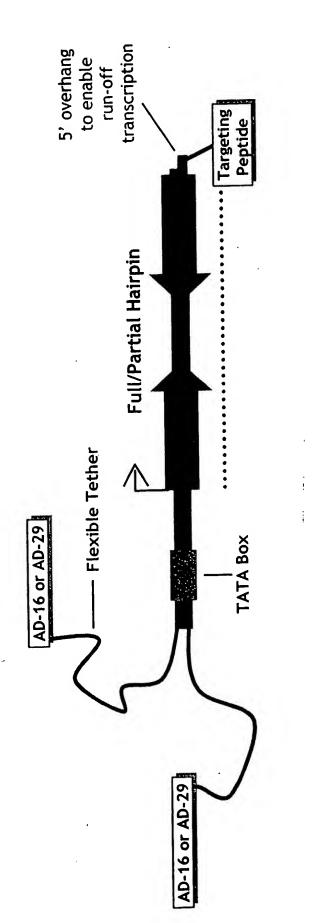
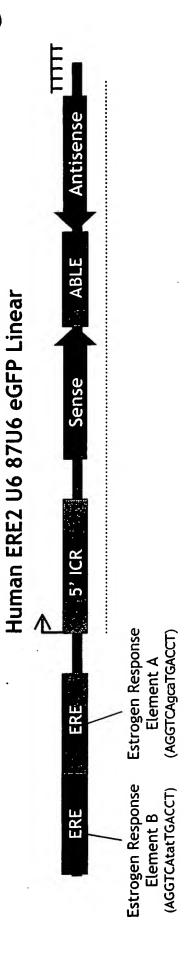


FIGURE 15 B



 $\widehat{}$

FIGURE 16



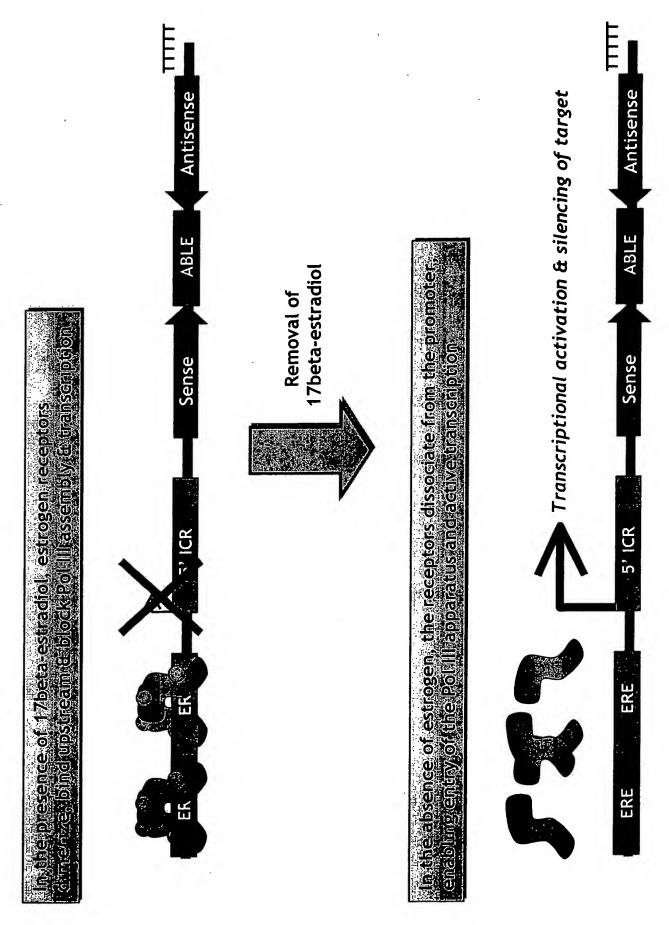


FIGURE 18

Based on the human U6 snRNA variant, 87U6

-

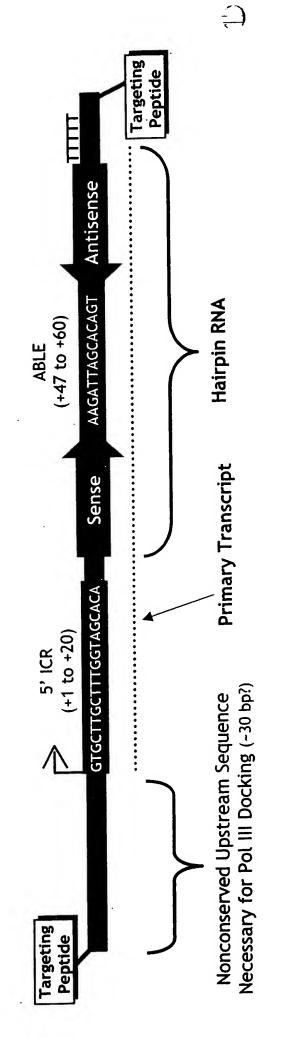
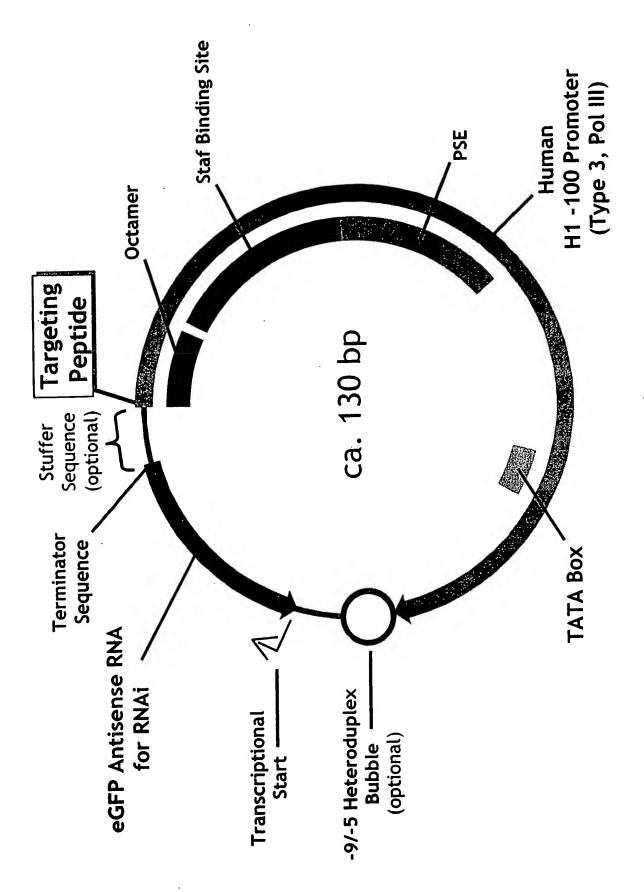
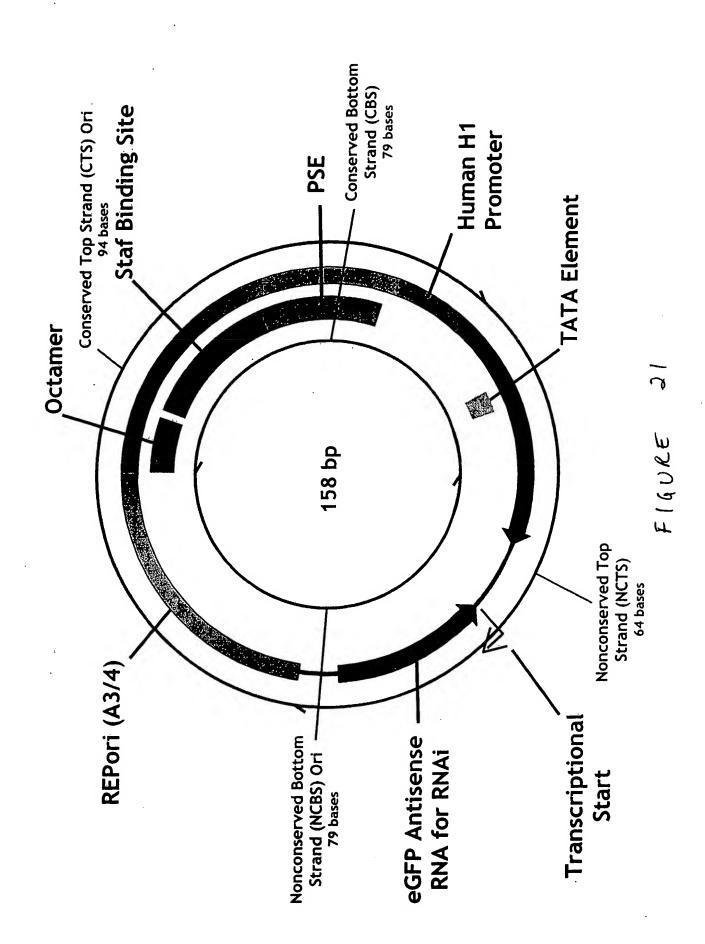


FIGURE 19



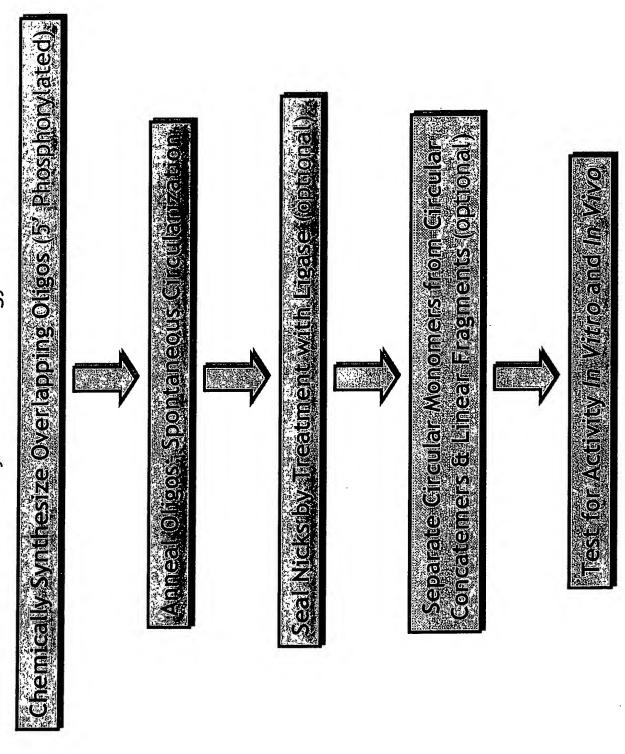
 $\stackrel{\frown}{:}$

FIGURE 20



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H1-eGFP Synthetic | REPori Micro-Circle Synthesis Strategy



PINEAR SONA (12/1-50)

Human Hit 36

^

I CANATICE INTRANSMENT OF THE CANADACT OF THE CONTROL OF THE CONTR <u>GCTGTTGTAGAGGCTGGTGGAAGATTAGCACAGTCCACCAGCTTCTACAATAGCTTTTT</u>

Sense Strand Beta-Catenin 1

ABLE Box (Loop)

Antisense Strand Beta-Catenin 1

FIGURE 23 A

Antisense Strand Beta-Catenin 1

ABLE Box forms Loop of Hairpin

Mismatch changes to the sense strand are underlined. synthesis yields and reduces aberrant cruciform DNA formation during hybridization. Changes made on the sense RNA strand do not adversely affect RNAi.

Also, it has been shown that a 6-base 5' overhang on a silencing RNA hairpin did not block silencing activity (*Nature*. 2002;418:435). Thus, the primary RNA transcript shown above will likely serve as a substrate for RNase III.

 ∞ FIGURE 23 Matures (standardors acomovinas processins ply systems)....

Sense Strand Beta-Catenin 1

Antisense Strand Beta-Catenin 1

FIGURE 23 C

Figure 24A

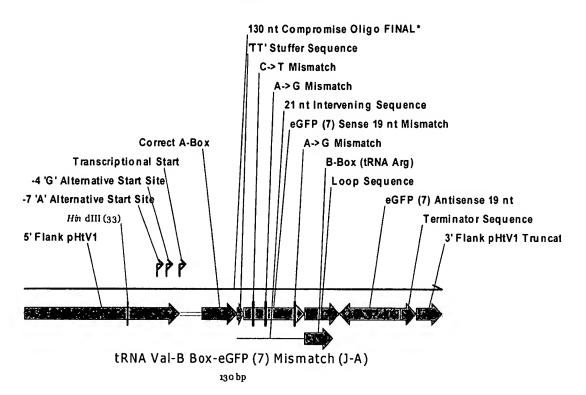


Figure 24B

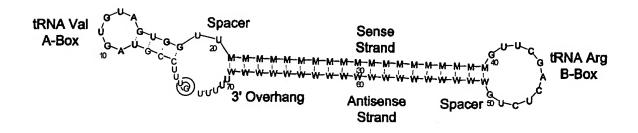


Figure 25A

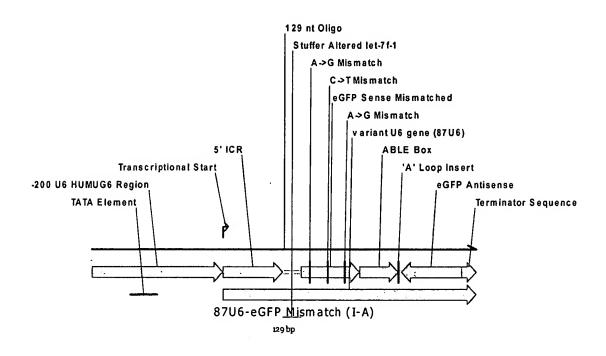
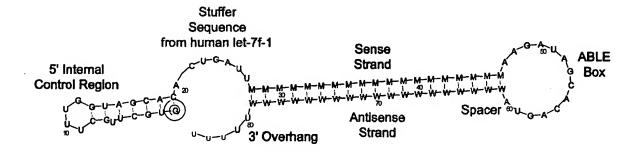


Figure 25B



34/39 Figure 26

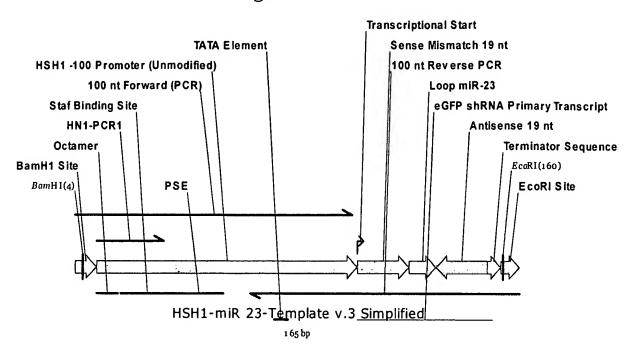


Figure 27

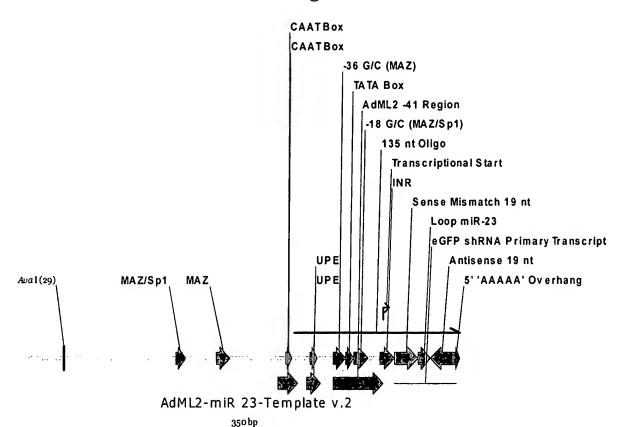


Figure 28

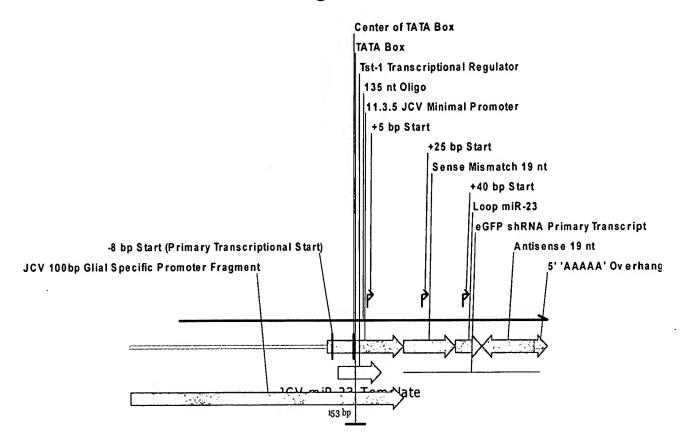
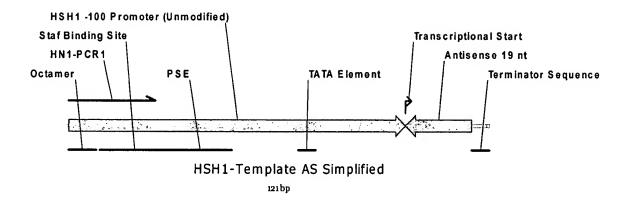


Figure 29



38/39 Figure 30

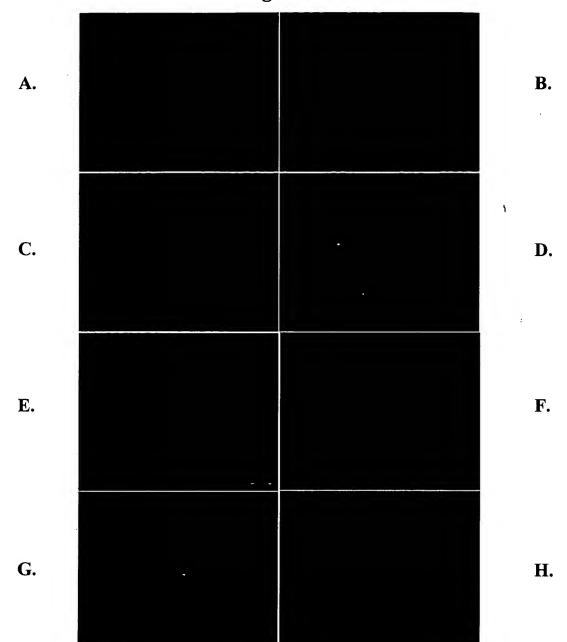


Figure 31

